

FIG. 3

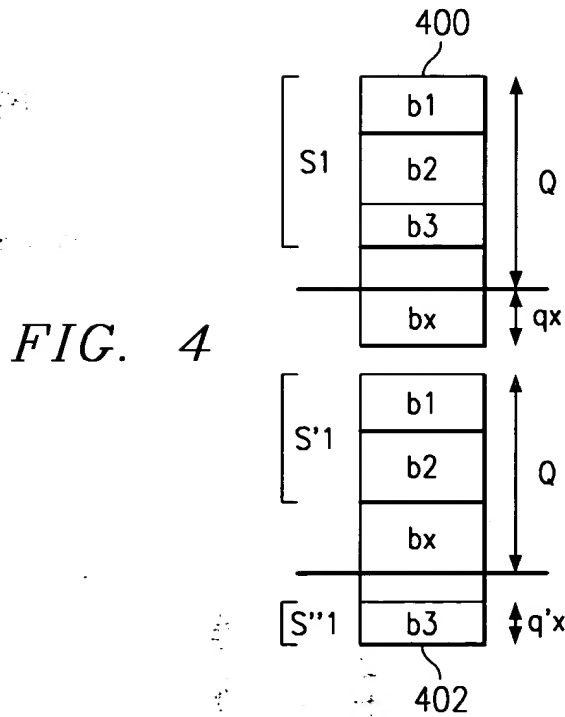


FIG. 4

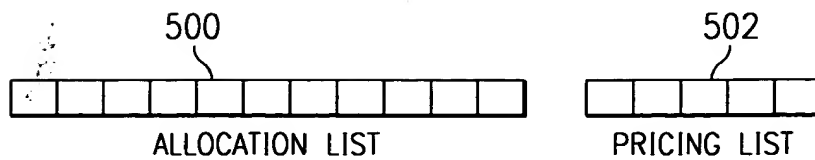
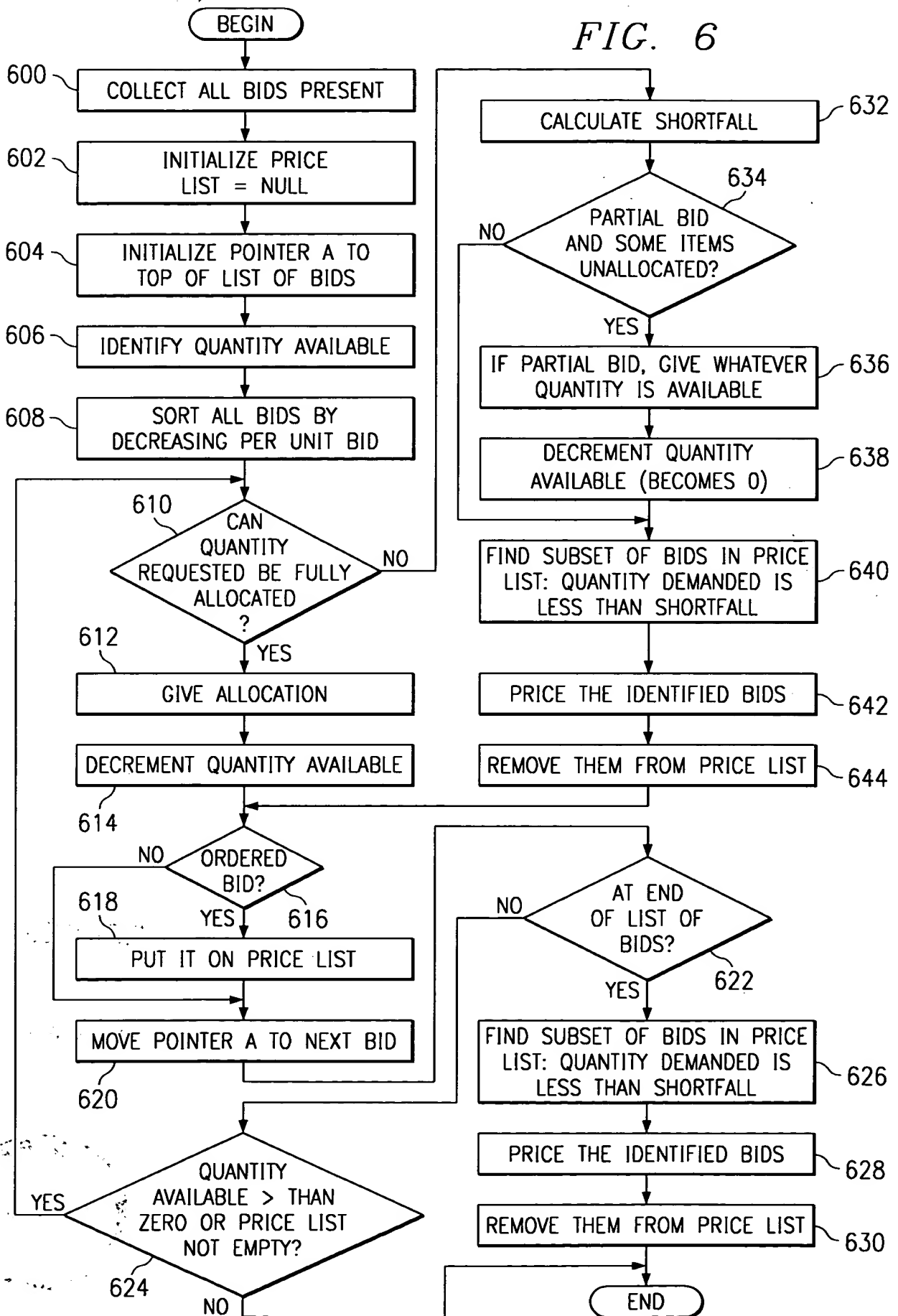
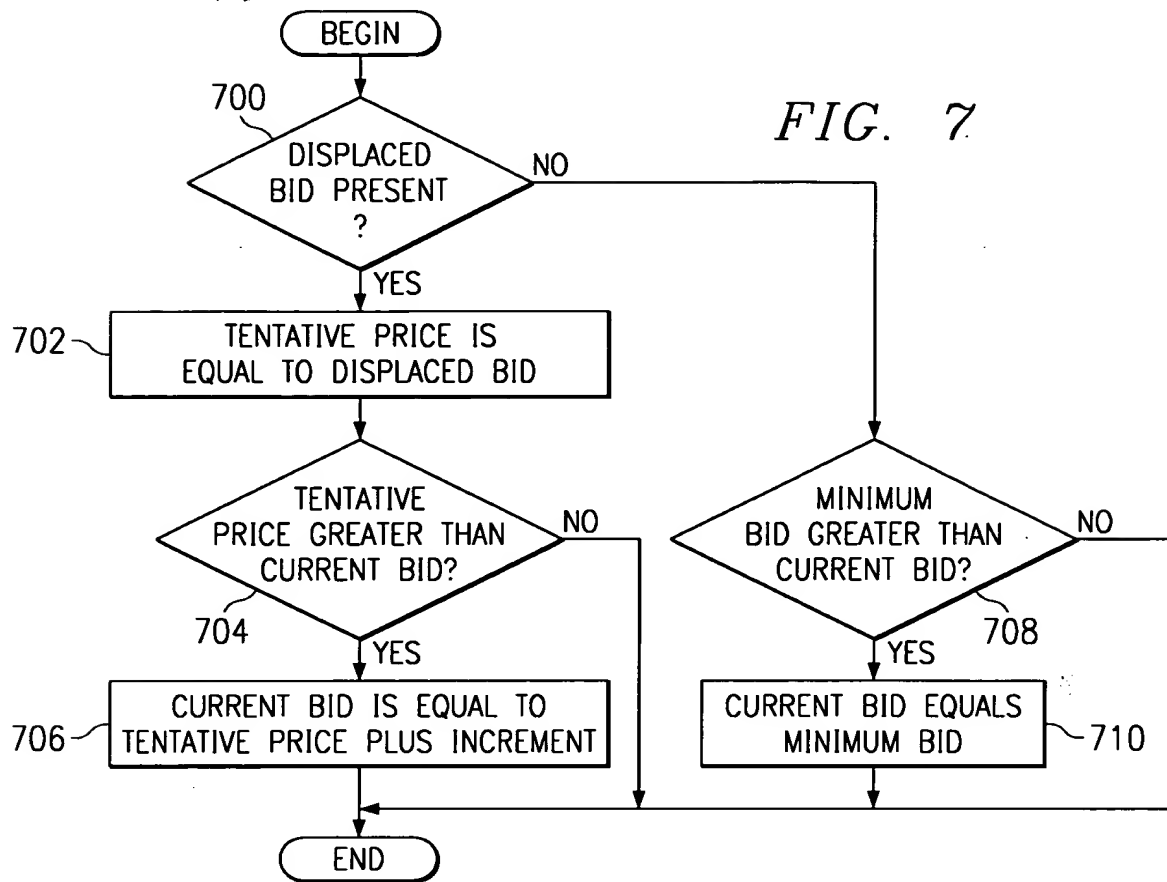


FIG. 5

FIG. 6



*FIG. 8*

q_avail =
q_on_stack = 0 ;

800

```

while (((q_avail > 0) || (q_on_stack > 0)) && (~EOL)) {
    If (current->q_need <= q_available) { // Full allocation
        If (This is an order bid) Stack_it
    }
    Else {
        If (current_bid is on partial bid) {short_fall = 1}
        Else {Shortfall = current->q_need - q_available} ;
        While (Shortfall <= q_on_stack) {
            price bids on stack ; /* Current bid is displacing them */
        }

        If (current bid is an order_bid) {
            Put bid on stack ;
            Increment q_on_stack ;
        }
    }
}

While (((q_avail > 0) || (q_on_stack > 0)) && EOL) {
    price bids on stack ; /* No bids are displacing them */
}
  
```